

Industrial Automation

IMI Bahr

Bikelift Series

Assembly stand for bicycles,
e-bikes and cargo bikes



Breakthrough
engineering for
a better world

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Breakthrough engineering for a better world

We create solutions for our customers which enable smarter, safer, more productive and sustainable factories, production lines and warehouse operations. Our pneumatic and electric motion systems help machine builders and end users around the world automate and optimise manufacturing and warehousing processes..

We have partnered with customers in industrial automation for over a century, applying our experience and innovation to create lasting value for their businesses. Our solutions support critical industries such as automotive, food and beverage, pharmaceuticals and even the space industry. We support the automation of precision manufacturing, product assembly, testing and packaging.

We use the latest digital technologies in our automation products and constantly innovate in close partnership with our customers. By applying our deep expertise, we can solve their toughest automation challenges, today and tomorrow. Through increased productivity, efficiency and safety, our customers can serve their own customers better, creating sustainable competitive advantage and delivering growth.

Our world-class product portfolio includes IMI Norgren, IMI Bimba, and IMI Bahr.



The new lightness in the bicycle workshop

A 230 volt socket is all you need to experience a new easiness in the bike workshop.

Our contribution to better ergonomics in the workshop follows the trend that bicycles gain more and more importance, especially in urban environments. There is something going on on the cycle paths – and in the workshops as well. Cyclists who want to ride safely and smoothly for as long as possible should regularly give their bike into the hands of an expert – whose workshop is preferably just around the corner, in the middle of the pedestrian zone.

On the one hand, a good order situation will result in certain waiting periods, on the other hand it requires fast and ergonomic workflows.

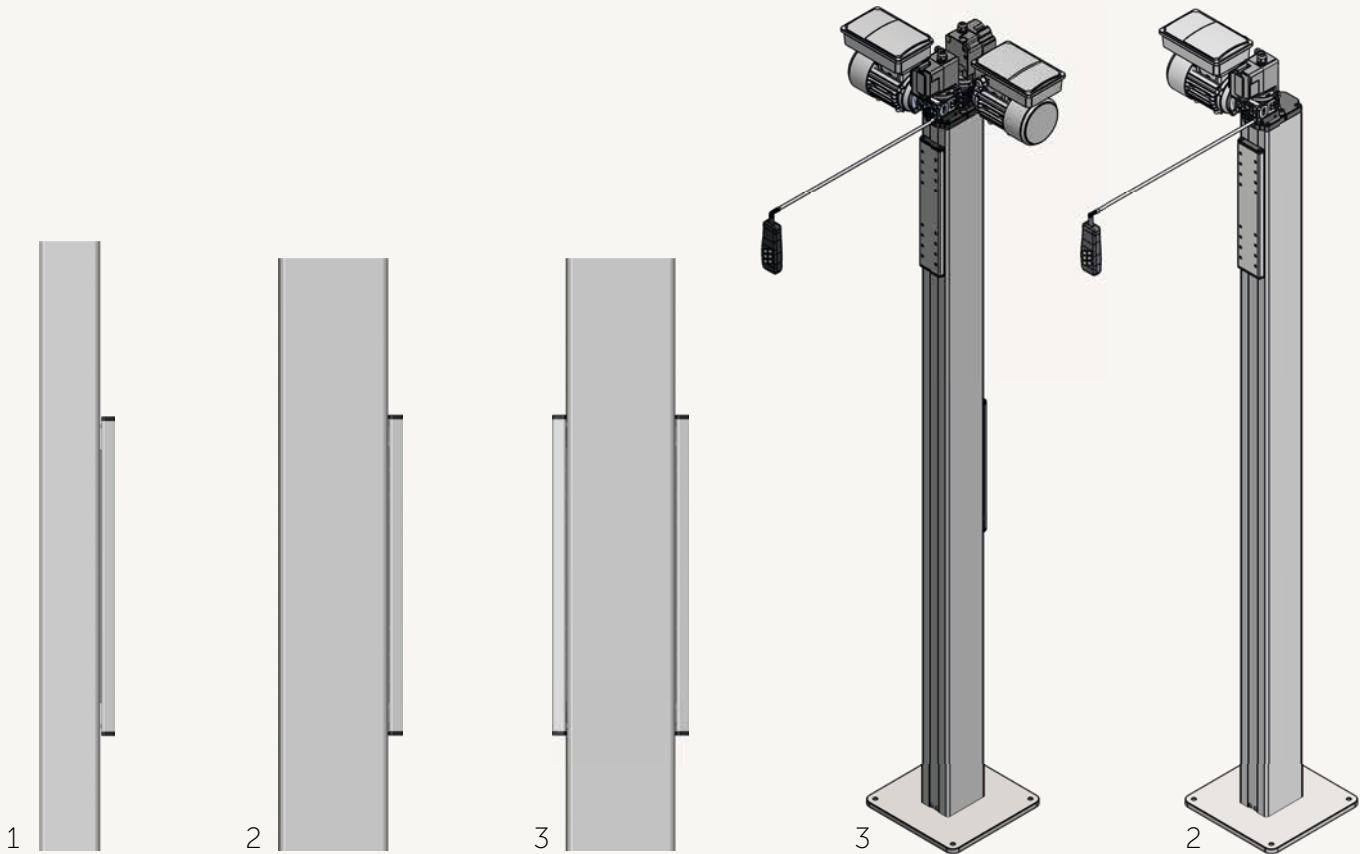
This is exactly where the bicycle lift comes in. The electrically driven mounting stand makes the work in the workshop easier and more ergonomic and, in addition, it makes space available when used in the double configuration. The space saved can ideally be used for a second workstation.

More comfortable repair and service

More comfort on the road, better ergonomics in the workshop. Everybody wants to ride a smooth-running bike. With our new bike lift, we have developed a system that provides bike workshops with highly available, robust and accurate industrial technology.

This solution makes service and repair work noticeably faster and easier. With the mounting plates and optionally two independently liftable assembly stations, the BikeLift ensures the necessary flexibility in your workshop.

●● Take up bikes directly from the floor and lift them to the desired work height ●●



Models

1	BIKELIFT WALL wall mounting	Standard model for wall mounting
2	BIKELIFT-S1 freestanding	Standard model free-standing for 1 bicycle
3	BIKELIFT-S0 freestanding	Standard model free-standing for 2 bicycle



→ Find out more

Description		BIKELIFT WALL	BIKELIFT-S1	BIKELIFT-S0
Number of work stations		1	1	2
Dimensions wall mounting	BxTxH in mm	150x100x2200		
Dimensions floor mounting	BxTxH in mm		300x300x2200	300x300x2200
Maximum lifting load	kg	85**	85**	85**
Continuous height adjustment	mm	2000***	2000***	2000***
Total weight	kg	45	80	100

**the maximum useful lever load depends on the accessories used (gripper, etc.)
***variable stroke on request

Up and down quickly and, what's more important, safely

Due to its easy wall mounting the classic **BIKELIFT WALL** is a space-saving solution for every garage, workshop or in confined spaces. The **BIKELIFT** is firmly screwed to a base plate, which gives the mounting stand the necessary stability anchoring to the floor. The mounting stand is secure and stable thanks to a fixed dowel in the floor.

In view of the fact that space is often tight, particularly in workshops located near the city centre, we have equipped our bike lift with two drive units as an option, so that two mechanics can work independently of one another.

Mounting

	Name	Code-No.:
1	Wall mounting for BIKELIFT WALL	00339
2	Base plate for BIKELIFT 300 x 300 mm for fixed mounting and floor anchoring	00338



Find out more

Safety in the workshop

The Bikelift uses a trapezoidal threaded spindle specially designed for this application. It is connected to the motor at the head of the lifting profile and ensures the vertical movement of the mounting bracket via the travelling spindle nut. With our design, neither a belt can break nor a compressed air hose burst.

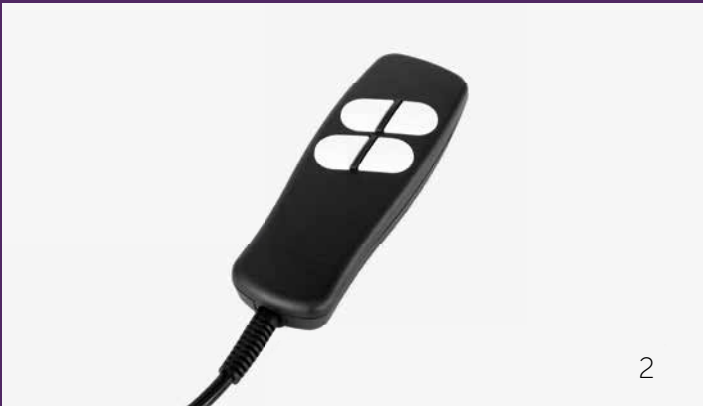
Smooth starting and braking is ensured by the frequency converter, which is directly connected to the energy-saving 230V motor to save space. The lift thus moves two-wheelers weighing up to 85 kg (per pick-up) up to eye level and back down again.



Find out more

Operation

	Name	Code-No.:	Additional information	Load capacity
1	Rotary module incl. worm gear motor	003315	for rotation 360 °	85 kg
2	Manual hand switch	00340	with spiral cable incl.bracket	
3	Foot switch	00334	2-pedal, wired	



To each his own tool

And so that everything also fits in the direction of the bicycle, the slide can be connected to different holding systems thanks to a wide variety of holes. Thanks to our adapter with Ø 50 mm, various gripping systems can be attached without difficulty.

●● Thus, bicycle lift is easily adaptable, so that you can choose your preferred type of holding fixture. ●●

Holding fixtures

	Name	Code-No.:	Additional information	Load capacity
1	Step mandrel-Set	003313	with 2 stepped pins	85 kg
2	Bike gripper	003320	IMI Bahr	45 kg
3	Adapter bike mount	00330	Ø 50 mm L: 120 mm	85 kg
4	Adapter bike mount	003301	Ø 50 mm L: 250 mm	85 kg
5	Fork arms	003318	for cargobikes	85 kg
6	Ball coupling	003322	for bike carrier	85 kg
7	Cargobike locking device	0033180	for cargobikes	85 kg



Technical specifications

The BikeLift is a reliable and industry-proven solution for the maintenance, repair and placement of bicycles of any type.

The highly robust, electrically driven lifting system allows for quick lifting and lowering of loads and is based on an especially safe drive and guide concept compared to other products in the market.

- Weight-optimized and easy to install
- Ergonomic and safe machine design acc. to DGUV (German Social Accident Insurance) Information 208-040
- High operational safety and long lifetime
- CE-marking and EEC Declaration of Conformity acc. to:
 - EC Machine Directive 2006/42/EC
 - German Industrial Safety Regulation (BetrSichV)
- German Product Safety Act (ProdSG)

●● Maximum occupational safety - no crushing or pinching! ●●



→ Find out more



Free-wheeling system

The BikeLift uses a trapezoidal threaded spindle specially adapted to this application. The catch nut assigned to the guide carriage provides a unique safety effect. Thanks to this free-wheeling system, the carriage can be lifted freely by hand, thus ensuring maximum work safety.

Further information
www.imiplc.com

Your solution for lifting heavier e-bikes and cargobikes



The ideal mounting stand for anyone who wants to work flexibly with quickly exchangeable mounting systems. Thanks to the adapter, compatible with all common holding systems. Get a brief overview in our detailed views and working examples.



Work ergonomically



Thanks to free-wheel system, highest working safety



Fork arms for cargo bikes 003318



Step mandrel 003313 in action



Cargo bike in use incl. Cargobike lock



Dual workstation incl. cable duct, magnetic tool holder and bike gripper

All features at a glance

- For e-bikes, bicycles & cargo bikes
- Flexible pick-up and holding systems
- Single and dual workstations
- Low noise and little maintenance
- Space-saving due to compact design
- Highest reliability & operational safety
- The drive is protected from water, grease and dust
- Modular mounting through the bottom plate, anchoring to the floor or wall
- Soft starts and stops thanks to frequency converter
- Hand or foot switch
- Variable work height, lift height up to 2600 mm
- Ergonomic and back-friendly
- Safe free-wheel system



Profile design



Various holding systems are available



Magnetic tool holder



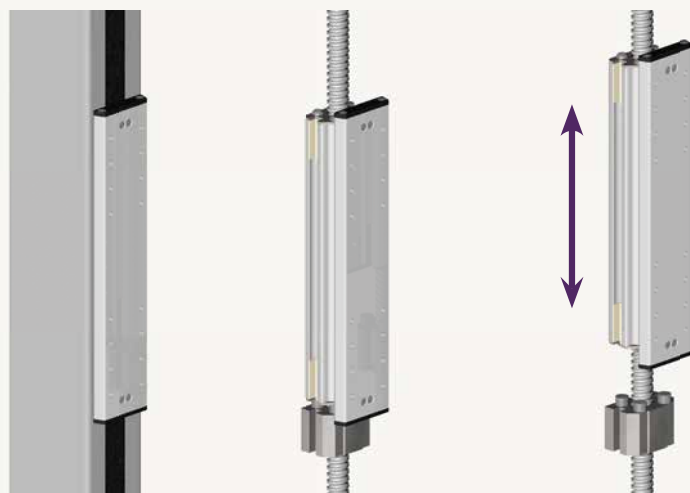
Bike gripper 003320 is especially easy to operate



Guide carriage with various threaded holes for a wide range of adapters

Overview

The electrically driven assembly stand for all those who work flexibly with quickly interchangeable holding systems. Thanks to the adapters, compatible with all common holding systems.



- Thanks to the freewheel system, the carriage can be lifted freely by hand. Highest working safety: no crushing or pinching!

- Extensive gripper accessories available from stock. Existing grippers can also be integrated using special adapters.

- Extensive accessories
Cable channels with additional connections for pneumatics, power or USB.

- Maximum reliability and operational safety

- Trapezoidal thread spindle Tr. 24x10 for extremely high loads

- Modular mounting base plates. Due to a fixed dowelling in the floor, the assembly stand is secure and stable.

- BIKELIFT-S0
Dual
workstation



- BIKELIFT-S1
Single
workstation*



- Foot switch



- Selectable as a single and dual workstation
- Variable working height, even for tall people. Lift height up to a maximum of 2.8m (on request).
- Brushless IEC standard three-phase motor. Connection to 230 Volt. Fixed frequency converter, lifting speed 100-170 mm/sec. Control voltage 24 V DC / 0,5 A. Very low noise, standby < 0.5 W
- A metal cover strip prevents dust, dirt or objects from getting inside. It also provides a high safety aspect and protects against hand injuries.
- Thanks to frequency converter smooth starting and braking. Positioning accurate to the millimeter.

- Different mounting systems. Thanks to our adapter with Ø 50 mm, various gripping systems can be attached without difficulty.

- Fork arms
Loadable up to 85 kg and can be lowered to ground level. For cargo bikes, lawn mowers, etc.



*optionally available as BIKELIFT WALL with wall mounting (power or battery operated by cordless screwdriver)



Individual cable management system

Do you need a power, USB or air pressure connection directly at the workplace? Then you will receive the ideal solution from us and order the right cable duct with your individual connections at the same time.

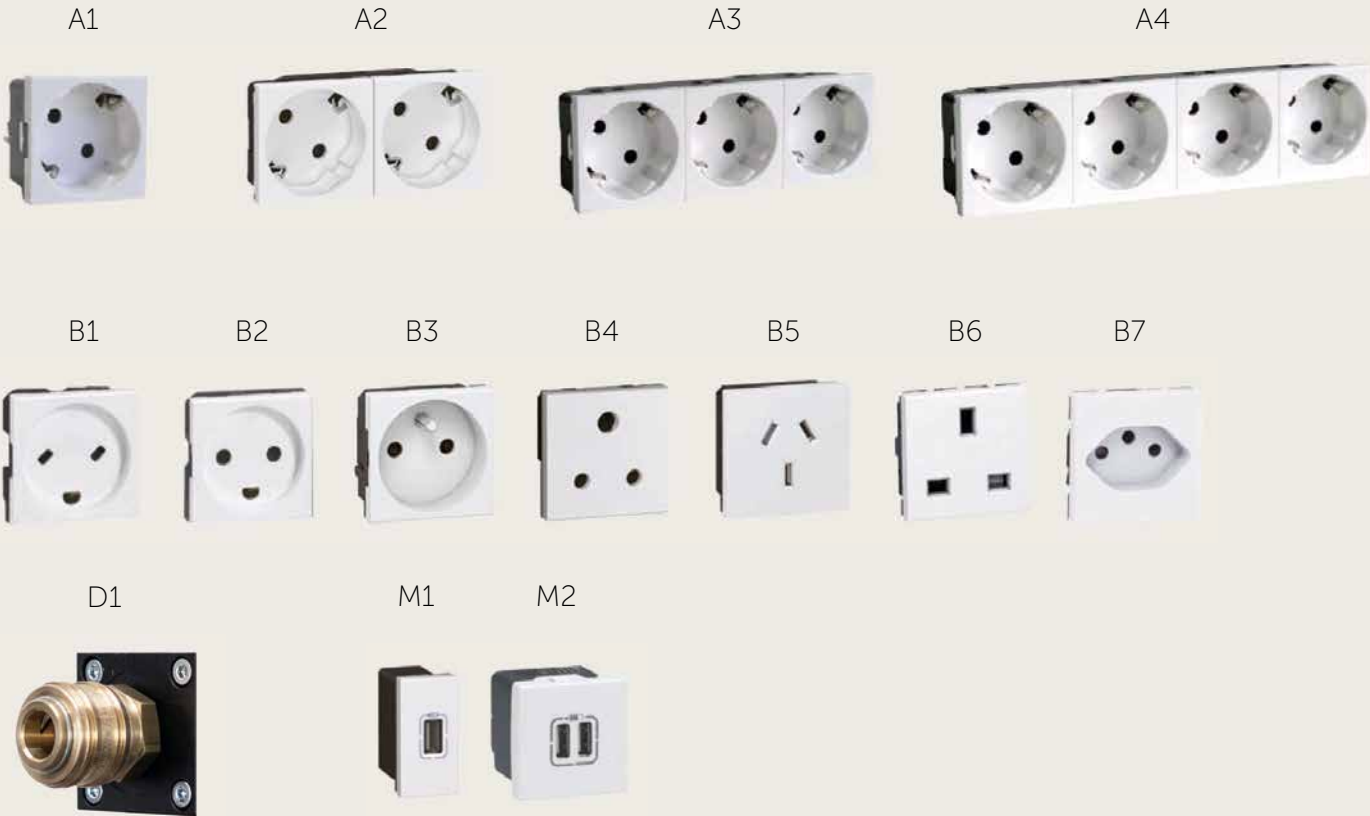
The inserts can be snapped directly into the cable duct and enable efficient work directly at the workplace. The maximum cable duct height is 1500mm.

●● By default, you will receive a magnetic tool holder when you select the cable channel. ●●



Sockets

	Name	
A1	Socket 45°	1
A2	Socket 45°	2
A3	Socket 45°	3
A4	Socket 45°	4
B1	Sockets worldwide	
B2	Sockets worldwide	
B3	Sockets worldwide	
B4	Sockets worldwide	
B5	Sockets worldwide	
B6	Sockets worldwide	
B7	Sockets worldwide	
D1	Air pressure connection	
M1	USB-connection	1er
M2	USB-connection	2er



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